

ABSTRACT OF DISCLOSURE

An optical information recording medium, a data recording apparatus, a data recording method used by the recording apparatus, and a data reproducing apparatus are provided, in which the optical information recording medium includes data provided in one or more recording blocks. A recording block of the optical information recording medium is generated by alternately arranging identifiers from ones of error correction code (ECC) blocks in the recording block, wherein each ECC block comprises a plurality of sectors having corresponding identifiers.